Nu-Metrics Traffic Analyzer Study

Computer Generated Summary Report
City: City of Fairfax

Street: Virginia St. #2 Red

A study of vehicle traffic was conducted with HI-STAR unit number 1039. The study was done in the North Bound lane on Virginia St. using counter #2 Red as shown on attached drawing.The counter was placed 150 Ft. from Main St. The study began on 12/02/2003 at 12:00 PM and concluded on 12/05/2003 at 09:00 AM, lasting a total of 69 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 939 vehicles passed through the location with a peak volume of 34 on 12/02/2003 at 05:00 PM and a minimum volume of 0 on 12/05/2003 at 02:00 AM. The AADT for this study was 452.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49
0	284	225	71	27	16	14	13	7

At least half of the vehicles were traveling in the 15 - 19 mph range or a lower speed. The average speed for all classified vehicles was 18 mph with 17.1 percent exceeding the posted speed of 25 mph. The HI-STAR found 11.0 percent of the total vehicles were traveling in excess of 35 mph. The mode for this study was 10 mph and the 85th percentile was 27.78 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2

0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
628	27	21	5	5	2	3	9

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 655 which represents 93.60 percent of the total classified vehicles. The number of Small Trucks in the study was 21 which represents 3.00 percent of the total classified vehicles. The number of Trucks/Buses in the study was 5 which represents 0.70 percent of the total classified vehicles. The number of Tractor Trailers in the study was 19 which represents 2.70 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 12/05/2003 at 09:00 AM the average headway between the vehicles was 10.17 seconds. The slowest traffic period was on 12/05/2003 at 02:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 29 and 74 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.